

Date: Thu, 4 Feb 93 19:38:14 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #170
To: Info-Hams

Info-Hams Digest Thu, 4 Feb 93 Volume 93 : Issue 170

Today's Topics:

 No-codes
 Tech Questions about MT-500 HT's(Need info)
 Weekly Solar Terrestrial Forecast & Review - 05-14 Feb
 Where to get .05uF @ 5000VDC Capacitors??

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 4 Feb 1993 15:50:05 GMT
From: gondor.sdsu.edu!sol.ctr.columbia.edu!usc!zaphod.mps.ohio-state.edu!
pacific.mps.ohio-state.edu!linac!att!cbnews!jeffj@network.UCSD.EDU
Subject: No-codes
To: info-hams@ucsd.edu

In article <1993Feb4.124250.5500@nnnnpd2.cxo.dec.com> little@nuts2u.enet.dec.com
(nuts2u::little) writes:

>When reading the articles in this news group about such poor operating
>habits and how bad this and that has gotten, I assumed either the person
>was an OF or perhaps conditions were different in other parts of the
>country. Here in the Chicago area, I don't hear all these infractions. I
>worked 10 meters nearly every day for 3-4 months a short while ago and
>never came across all this stuff these OF's complain about. I also listen
>in on the local repeaters to see what's what and never hear the invasion of
>the CBers. I hear some truckers on the repeaters, but then again some of
>the best ops I've come across have been truckers.

I swear to God if I hear one more comment about the ham bands going to

hell I'm going to throttle that person! Then again I can just see the news, "Ham Radio operator arrested for assault!". And of course everyone will say "Musta been a No-code" 8-). But I digress, I haven't heard much garbage on the ham bands. In fact I have had a total blast talking to nice people all around the country and around the world. I do cringe when I hear a CBism on the repeaters and I have noticed a little more jamming taking place on the repeaters. But if you go with the ratio of 99% of people will be decent and 1% will be idiots in life. Ham radio will be probably at about .5% idiots. I think CW is a good idiot filter as people who cause problems for other people in life generally don't have what it takes to do any thing that takes some effort. 73!

Jeff

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Jeff Jones AB6MB		Nickel Back: What you get when you ask free
jeffj@seeker.mystic.com		agents to give you a million
Infolinc BBS 415-778-5929		dollars worth of effort.

Date: 4 Feb 93 07:52:46 GMT
From: dziuxsolim.rutgers.edu!clam.rutgers.edu!steuer@uunet.uu.net
Subject: Tech Questions about MT-500 HT's(Need info)
To: info-hams@ucsd.edu

Since this is a crystalized radio, is the crystal multiplication factor 26 for the 450-470version? A friend gave me two MT-500's one works, the other doesn't. I looked in the one that doesn't and there are two crystals, both say 17.900 and if you multity by 26 you get 465.400MHz which would be about the freq's these HT's were used for.

Also, since there are two crystal's, can one be changed to have a separate TX and RX freq? I want to convert these for 440 ham repeaters and if that is the case it would make my life easier! BTW, the one HT with two XTALS was a single band MT-500 and the other MT-500 which I didn't open has a selector switch for F1-F4(so I am guessing there are 8 XTALS).

Tnx for all help! 73
Rob KF2EK

| Robert Steuer Internet: steuer@clam.rutgers.edu |
| Rutgers University Amateur Radio: KF2EK@N3FOA.#EPA.PA.USA.NA |
VHF Repeater System Cherry Hill, NJ - KF2EK Repeater 145.370MHz

Date: 4 Feb 93 21:37:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review - 05-14 Feb
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
February 05 to February 14, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

For information regarding our Dynamic Auroral Oval Simulator and its
importance in aiding to determining propagation conditions,
send a request for more information to:
Oler@Rho.Uleth.CA, or COler@Solar.Stanford.Edu

Our Spring Special is now in effect for this software and
will remain active until 31 May, 1993.

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

	Solar	HF Propagation	+/- CON	SID PROB.	Es	AU.BKSR	DX	Mag	Aurora
	Activity	LO MI HI PO SWF %MUF %	ENH LO MI HI	LO MI HI	LO MI HI	%	K Ap	LO MI HI	
05	LOW-MOD	VG G F F 50 00 70	25 NA NA NA	00 05 10 30	3 12	NV NV LO			
06	LOW-MOD	VG G P P 50 00 70	25 NA NA NA	01 10 25 30	4 15	NV NV MO			
07	LOW-MOD	VG G P P 50 00 70	25 NA NA NA	01 10 25 30	4 15	NV NV MO			
08	LOW-MOD	VG G F F 50 +05 70	25 NA NA NA	01 10 20 35	3 12	NV NV LO			
09	LOW-MOD	VG VG F G 50 +10 65	25 NA NA NA	02 15 25 35	2 10	NV NV LO			
10	LOW-MOD	VG VG G G 50 +10 65	30 NA NA NA	02 15 25 35	2 10	NV NV LO			
11	LOW-MOD	VG VG G G 50 +15 60	30 NA NA NA	02 20 30 40	2 10	NV NV LO			
12	LOW-MOD	VG VG G G 50 +15 60	30 NA NA NA	03 20 30 40	2 10	NV NV LO			
13	LOW-MOD	VG VG G G 50 +15 60	30 NA NA NA	03 25 35 40	2 10	NV NV LO			
14	LOW-MOD	VG VG G G 50 +15 60	30 NA NA NA	03 25 35 40	2 10	NV NV LO			

DEFINITIONS:

Date (day only)

Possible Magnitude of Solar Flaring (LOW=C-class, MOD=M-class, HIGH=M or X)

HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
 HF Short Wave Fade Probability (in %)
 HF Maximum Usable Frequency in +/- percent above seasonal normals.
 HF Prediction CONfidence Level (in %)
 VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
 PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
 VHF AUroral BackScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
 VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
 Geomagnetic Activity Kp Index (peak value - see below)
 GeoMAGnetic Activity Ap Index (peak value - see below)
 AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair,
 P=Poor, VP=Very Poor, EP=Extremely Poor.
 Probability of Sporadic E (Es) for the various latitudes is given in percent.
 Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active,
 5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
 Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active,
 30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
 Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High,
 VH=Very High.

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (05 FEB - 14 FEB)

EXTREMELY SEVERE												HIGH
VERY SEVERE STORM												HIGH
SEVERE STORM												MODERATE
MAJOR STORM												LOW - MOD.
MINOR STORM												LOW
VERY ACTIVE		*	*									NONE
ACTIVE	**	***	***	**	*							NONE
UNSETTLED	***	***	***	***	***	***	**	***	***	***		NONE
QUIET	***	***	***	***	***	***	***	***	***	***		NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***		NONE

Geomagnetic Field	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		Anomaly
Conditions	Given in 8-hour UT intervals											Intensity

CONFIDENCE LEVEL: 65%

NOTES:

Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

54										J	
51										J	
49										J	
46										J	
43										J	
40				M						J	
38				M						J	
35				M						J	
32				M						J	
30				M						J	
27				AM		A				J	
24				AM		A				J	
22				AM	AA	A				JA	
19	A			AM	AA	A			A	JA	
16	A	A		AM	AAA	A	AA		AA	JAA	
13	AU	A		AM	AAAU	A	UAA	A	U	AA	JAAU
11	AUU	A	UU	AM	AAAUUA	UAA	AU	U	U	AA	JAAU
8	AUUU	U	A	UU	AMUU	AAAUUAUUAAUU	AU	U	UU	UAAU	UJAAUU
5	AUUUUQUQU	AU	UUUUUU	AMUUUU	AAAUUAUUAAUU	AUQUUUUUQ				UAAUU	UJAAUU
3	AUUUUQUQUQA	UQUUUUUUUQQQ	AMUUUU	AAAUUAUUAAUU	AUQUUUUUQQQ	UAAUUQU				JAAUU	

Chart Start Date: Day #343

NOTES:

This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.

Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX

176		
173		*
170		*
167		**
164		****
161		****
158		****
155		*****

```

152 | *****
149 | *****
146 | *****
143 | ***** *
140 | ***** **
137 | ***** **
134 | ***** **
131 | ***** *** ***** *
128 | ***** * ***** *
125 | ***** * *****
122 | ***** * *****
119 | *****
116 | *****
113 | *****
110 | *****
107 | *****
104 | *****
101 | *****

```

Chart Start: Day #342

GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

```

143 | -----
142 | *****
141 | *****
140 | * *****
139 | *****
138 | *****
137 | *****
136 | *****
135 | *****
134 | *****
133 | *****
132 | *****
131 | *****

```

Chart Start: Day #342

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day

mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

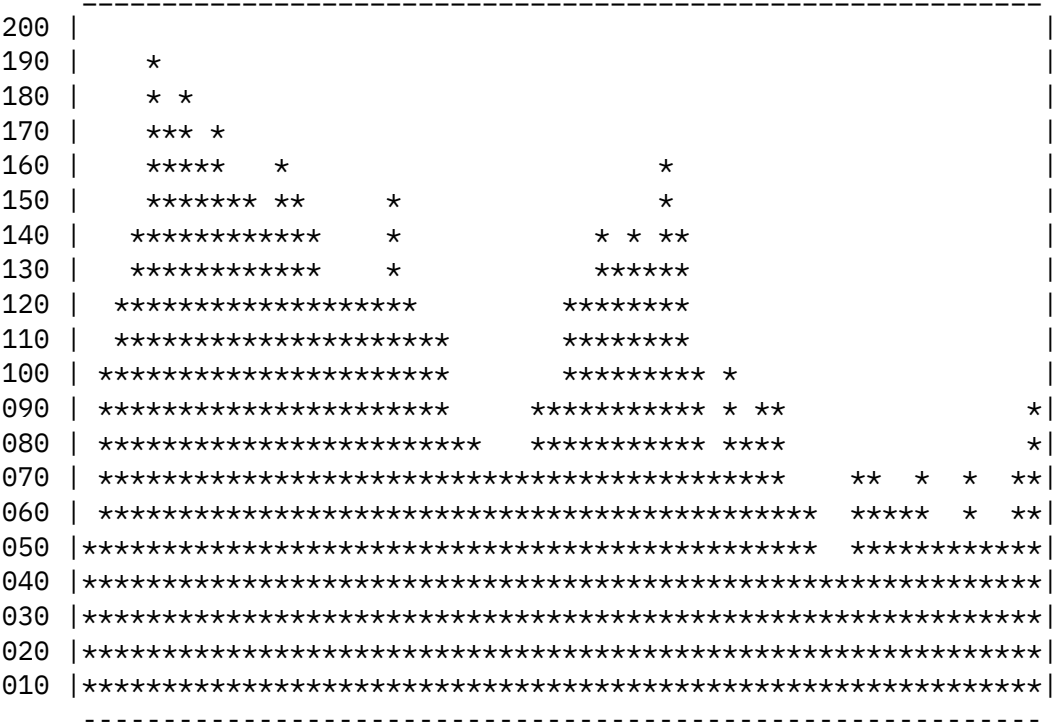


Chart Start: Day #342

NOTES:

The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (05 FEB - 14 FEB)

High Latitude Paths

CONFIDENCE LEVEL ----- 65%	EXTREMELY GOOD													
	VERY GOOD													
	GOOD						*	*	*	*	*			
	FAIR	***	**	**	**	***	*	*	*	*	*	*	*	*
	POOR		*	*	*									
	VERY POOR													
	EXTREMELY POOR													
	-----	----	----	----	----	----	----	----	----	----	----	----	----	----
	PROPAGATION	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun			

[illegible]

NOTES:

These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (05 FEB - 14 FEB)

High Latitude Locations

CONFIDENCE LEVEL	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
-----	MODERATE	*	*									
65%	LOW	***	***	**	*	*	*	*	**	**	**	**
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
	-----	---	---	---	---	---	---	---	---	---	---	---
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Middle Latitude Locations

CONFIDENCE LEVEL ----- 65%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW	*	*									
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
	-----	---	---	---	---	---	---	---	---	---	---	---
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Low Latitude Locations

CONFIDENCE LEVEL ----- 75%	EXTREMELY HIGH												
	VERY HIGH												
	HIGH												
	MODERATE												
	LOW												
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***	***
	-----	---	---	---	---	---	---	---	---	---	---	---	---
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight											

NOTE:

A Dynamic Auroral Oval Simulation and Prediction Software Package is available to help make predictions and show the locations where auroral activity should be visible from the ground. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

Date: Thu, 4 Feb 1993 14:44:19 GMT
 From: sun-barr!cs.utexas.edu!milano!cactus.org!thompson@ames.arpa
 Subject: Where to get .05uF @ 5000VDC Capacitors??
 To: info-hams@ucsd.edu

I am trying to find a source of .05uF 5000V capacitors.
 They are getting hard to find these days! Anyone have
 any known sources they would like to share??

Any hints/help appreciated.

-Charlie Thompson
 WB4HVD

Date: 4 Feb 93 16:05:15 GMT

From: olivea!spool.mu.edu!uwm.edu!linac!att!cbnewsm!jeffj@ames.arpa
To: info-hams@ucsd.edu

References <1993Feb4.010546.12345@samba.oit.unc.edu>,
<1993Feb4.140647.6454@odin.corp.sgi.com>,
<1993Feb4.152632.7994@cbnewsm.cb.att.com>
Subject : Ham Radio gear is NOT overpriced

As people have noticed, I, at times, have made comments about Ham Radio gear being overpriced. Gotten in long intense discussions on the value of new gear. Well, I have been talking to various small companies and they are plain struggling. At this time due to the size of market Ham Radio gear has to be priced high as the market is just too small to support mass market prices like computer products. So until the market grows and doubles or triples in size, you won't see me posting any more messages on this subject. Made for great discussions and I learned a lot! If prices don't drop when the markets grow to those sizes, I'll be back here screaming once again. 8-) I am sure that those that argued long and hard with me on this, will breathe a sigh of relief and will be able to sleep at nights once again. 8-) No one is getting rich off this market that I am convinced of now. 73!

Jeff

--

Jeff Jones AB6MB		Nickel Back: What you get when you ask free
jeffj@seeker.mystic.com		agents to give you a million
Infolinc BBS 415-778-5929		dollars worth of effort.

End of Info-Hams Digest V93 #170
